

MALEVICH, M.A.; SHTUKKENBERG, Yu.M.

Scattering of beta radiation from thin preparations in tissue-equivalent materials. Atom. energ. 19 no.1:40 J1 '65. (MIRA 18:7)

BABAYANTS, R.S.; BLAGOVESHCHENSKAYA, V.V.; VERGILESOVA, O.S.; VISSONOV, Yu.V.;
VYALOVA, N.A.; GLAZUNOV, I.S.; DRUTMAN, R.D.; KLEMPASKAYA, N.N.;
KOTOVA, E.S.; KURSHAKOV, N.A., prof.; LARCHEVA, I.P.; LYSKOVA, M.N.;
MAYYSHEVA, M.S.; PETUSHKOV, V.N.; RYNKOVA, N.N.; SOKOLOVA, I.I.;
STUDENIKINA, L.A.; CHUSOVA, V.N.; SHESTIKHINA, O.N.; SHULYATIKOVA,
A.Ya.; SHTUKKENBERG, Yu.M.; BARANOVA, Ye.F., red.

[Acute radiation lesion in man] Ostrala radiatsionnaya travma
u cheloveka. Moskva, Meditsina, 1965. 313 p.

(MIRA 18:9)

1. Chlen-korrespondent AMN SSSR (for Kurshakov).

L 37672-66 EWT(m)

ACC NR: AP6028848

SOURCE CODE: UR/0241/66/011/004/0015/0042

AUTHOR: Kurshakov, N. A.; Baysogolov, G. D.; Gus'kova, A. K. (Deceased);
Shtukkenberg, Yu. M.; Drutman, R. D.; Malysheva, M. S. (Deceased)

30

ORG: none

TITLE: Correlation of local tissue changes and general reactions at different phases of the acute radiation syndrome in man

SOURCE: Meditsinskaya radiologiya, v. 11, no. 4, 1966, 15-42

TOPIC TAGS: radiation biologic effect, dosimetry, tissue physiology, reflex activity, blood chemistry, radiation sickness, pathogenesis, blood

ABSTRACT: The authors studied pathogenetic mechanisms in local and whole-body irradiation and sought to explain the importance of the dose distribution in the origin of certain clinical symptoms, the course and outcome of the affection, i.e., the correlation between local tissue damage and general, particularly reflex, reactions of the organism.

The relationship between the beam of neutrons Π_0 and the specific activity of blood C is of the form:

$$\Pi_0 = 1.4 \cdot 10^6 \cdot \bar{L} \cdot \eta_{or}$$

where Π_0 is the beam of neutrons in neutrons/cm²; \bar{L} , mean effective path along which the absorption of neutrons in the tissue takes

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UDC: 617-001.28-031.84:617-001.28-031.84]-036.1

NAGORNYY, A.I.; SHCHEGLOVA, A.G.; KULEMZIN, K.N.; SHTUKKERT, V.A.;
KORNIYENKOV, R.K.; TKACHENKO, D.N.

Manufacture of glazed products at a brick plant. Stroi. mat.
11 no.7:6 JI '65. (MIRA 18:8)

1. Alma-Atinskiy nauchno-issledovatel'skiy institut stroitel'nykh
materialov (for Nagornyy, Shcheglova, Kulemzin). 2. Karagandinskiy
kirpichnyy zavod No.3 (for Shtukkert, Korniyenkov, Tkachenko).

ACCESSION NR: AP4045324

S/0209/64/000/006/0092/0093

AUTHOR: Shtukmayster, B. (Engineer, Lieutenant colonel)

TITLE: Control-testing device

SOURCE: Aviatsiya i kosmonavtika, no. 6, 1964, 92-93

TOPIC TAGS: testing device, instrument checking, aircraft instrument design, equipment testing

ABSTRACT: The article describes a control testing unit which makes it possible to measure a large number of parameters of aviation equipment and indirectly to determine the operational conditions of systems, instruments and assemblies. Using this device, it is possible to check the program for the adjustment of the air-intake electrical system, the proper adjustment of the load on the aircraft controls depending on speed and altitude, the voltage of the AC and DC generators at 30% load, as well as the current consumed by a whole variety of electrical instruments and aircraft equipment. The accuracy of the readings of instruments of the aneroid-membrane group may also be checked with this unit which, mounted on the control panel, is set up on a carriage with a four-wheel chassis. When measuring the currents drawn by the various aircraft instruments it is also possible to estimate, indirectly, the reliability of the operation of the electric system as

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ACCESSION NR: AP4045324

a whole or of an individual feeder line together with the unit it supplies. The design, construction and, to some degree, the use of this system are briefly discussed. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC, EE

NO REF SOV: 000

OTHER: 000

Card

2/2

SHTUKOV, N. V.

AID P - 3361

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 19/27

Authors : Kamenskiy, V. I., Shtukov, N. V., and Voloshin, I.S.,
Engs.

Title : Drying of insulation of cables of the KSRB mark

Periodical : Energetik, 9, 29-30, S 1955

Abstract : The authors describe a case where a considerable and dangerous decline in insulation of a control cable of the KSRB mark was found after a short period of operation. The cable was laid directly in the ground and rain water seeped under its defective lead sheathing. The authors developed their own method to dry-out the cable. This method is described. Three drawings.

Institution : None

Submitted : No date

Shukovskaya, L. A.

Evlanov, A. V., and Shukovskaya, L. A.: Tekhnicheskii i sanitarnyi analiz vody v usloviyakh ekspeditsii (Technical and Sanitary Analysis of Water for Expeditions). 2nd ed. Moscow: Gosudarst. Izdatel'stvo Lit. po Stroitel'stvu i Arkhitekture. 1962. 96 pp.

C// SHTUKOVSKAYA, L.A

14

Determination of iodine in natural waters. V. G. Golubev and L. A. Shtukovskaya (Moscow Regional Sanit. Inst.). *Gigiena i Sanit.* 1952, No. 2, 17-20.—To det. I, a 1:5:1 sample is made alk. to phenolphthalein with K_2CO_3 , concd. to a small vol., and dried at 400° to destroy org. matter. The residue is extd. 8 times with $EtOH$, the ext. evapd., dilt. with H_2O , neutralized with H_2SO_4 , made slightly acid with 2.5 ml. 0.1 N H_2SO_4 and 0.2 ml. fresh Br added, and the soln. is titrated with hyposulfite for the liberated I.
G. M. Kozolapoff

* Shtukovskaya, L. A.

✓ Determination of calcium and magnesium in water with
Trilon B. L. A. Shtukovskaya (District Sci. Research
Sanit. Hyg. Inst., Moscow). *Gigiena i Sanit.* 21, No. 3, 47-8
(1958).—Murexide indicator method (Schwarzenbach, *et
al.*, C.A. 40, 5850⁺) was tested for the Trilon B method of
detn. of Ca and Mg in waters of the Moscow area. The re-
sults agreed within 0.2-0.4 mg./l. of Ca with the usual KMn-
O₄ method. The conventional Trilon B method was used
for total hardness with an accuracy of 0.5 mg./l. (*loc. cit.*).
G. M. Koslovskiy

SKOPINTSEV, B.A.; VOROB'YEVA, R.V.; SHTUKOVSKAYA, L.A.

Complexometric method for the determination of calcium and the sum
of calcium and magnesium in sea water. *Gidrokhim. mat.* 27:146-151
'57. (MIRA 11:4)

1. Morskoy gidrofizicheskiy institut AN SSSR, Moskva.
(Seawater--Analysis)

SHTUKOVSKAYA, L.A.; LUKINA, M.P.; SHITS, L.A.

Hygienic evaluation of water demineralized by Russian. Gig. i
san. 25 no. 12:93-95 D '60. (MIRA 14:2)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii
i gigiyeny imeni F.F. Erismana Ministerstva zdravookhraneniya
RSFSR i Nauchno-issledovatel'skogo instituta plasticheskikh
mass.

(SALINE WATERS--DEMINERALIZATION)
(ION-EXCHANGING SUBSTANCES)

SHTUKOVSKAYA, L.A.; YAZHEMSKAYA, V.Ya.

Polarographic method in sanitary water examination. Gig.i san.
26 no.3:55-57 Mr '61. (MIRA 14:7)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta gigiyeny
imeni F.F.Erismana Ministerstva zdravookhraneniya RSFSR.
(WATER--ANALYSIS) (POLAROGRAPHY)

SHTUKOVSKIY, R. [Stukovsky, R.]; NEMET, Sh. [Nemet, S.]; PODOBA, Yu.
[Podoba, I.] (Bratislava)

Etiology and pathogenesis of endemic goiter. Arkh.pat. no.11:
55-57 '61. (MIRA 14:10)

1. Iz Endokrinologicheskogo instituta (dir. Yu. Podoba) Slovatskoy
akademii nauk.

(GOITER)

SHTULAR P.

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PHASE I BOOK EXPLOITATION

SOV/5975

International Institute of Welding

XII kongress Mezhdunarodnogo instituta svarki, 29 iyunya - 5 iyulya 1959 v g.
Opatii (Twelfth Annual Assembly of the International Institute of Welding,
Opatija, June 29 - July 5, 1959) Moscow, Mashgiz, 1961. 359 p. 3000
copies printed.

Sponsoring Agency: Natsional'nyy komitet SSSR po svarke.

Ed. (Title page): G. A. Mazlov, Docent; Translated from English, French,
and Serbo-Croatian by N. S. Aborenkova, K. N. Belyayev, E. F. Bogacheva,
L. A. Borisova, K. V. Zvegintseva, V. S. Minavichev, and M. M. Shelechnik;
Managing Ed. for Literature on the Hot-Working of Metals: S. Ya. Golovin,
Engineer.

PURPOSE: This collection of articles is intended for welding specialists and
the technical personnel of various production and repair shops.

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SOV/5975

Twelfth Annual Assembly (Cont.)

COVERAGE: The collection contains abridged reports presented and discussed at the Twelfth Annual Assembly of the International Institute of Welding. Reports deal with problems of welding and related processes used in repair work, repair techniques, and the problems arising in connection with the nature of the base and filler materials. Examples of repairing various parts are given, and the organization of repair operations in workshops and under field conditions is discussed. Economic aspects of welding and related processes as used in repair work are analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS: [Only Soviet and Soviet-bloc reports are given here]

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**PART I. THE STUDY OF REPAIR-WORK TECHNIQUES
(PROCESSES, METHODS, PREPARATION, HEATING, AND
OTHER TYPES OF PROCESSING CONTROL)**

Myuntsner, L. (Czechoslovakia). Welding of Broken Crankshafts

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Card 2/9

Twelfth Annual Assembly (Cont.)

SOV/5975

Yemel'yanov, N. P. (USSR). The Use of Multielectrode Automatic Submerged-Arc Welding in Repairing Railroad Rolling Stock

104

Prosenits, V., and P. Shtular (Yugoslavia). Manufacture of Cutting Tools by Hard Alloy Build-Up With Argon Shielded Arc Welding and the Process Viewed From the Standpoint of Economy

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PART II. PROBLEMS IN REPAIR WORK ARISING IN CONNECTION WITH THE NATURE OF THE BASE AND FILLER MATERIALS AND THE REQUIRED OPERATIONAL PROPERTIES (WITH CONSIDERATION OF WELDABILITY, WARPAGE, AND INTERNAL STRESSES)

Rikhter, Zh. (Yugoslavia). Welding of the Al-Mg-Si Alloy and Problems of the Dynamic Strength of Welded Joints

128

Card 4/9

GURAREV, Ye.M.; GABRILOVICH, A.B.; SHTUL'BAUM, F.I.

Bound lipids of *Corynebacterium diphtheriae*. *Biokhimiia*, Moskva 17
no.3:303-306 May-June 1952. (CLML 25:1)

1. Biochemical Laboratory of the Institute of Epidemiology and
Microbiology, Rostov-on-the-Don.

RAFALOV, M.M., inzh.; SHTUL'BERG, B.M., inzh.

Comparing technical and economic indices of various types
of overhead push conveyors. Mekh. i avtom. proizvod. 19
no.5:39-45 My '65. (MIRA 18:11)

YEFIMOV, V.P. [deceased]; LESNAYA, V.I.; SHTUL'BERG, I.M.

High-efficiency machining of low-module gear wheels.

Priborostroenie no.9:6-8 3 '62.

(MIRA 15:9)

(Gear cutting)

LESNAYA, V.I.; SHTEL'BERG, I.M.

Advanced technology for the manufacture of low-module spur gears.
Pribozrostroenie no.7:16-21 J1 '64. (MIRA 17:11)

SHTUL'BERG, P.M.

A testing device for shaping machines. Ratsionalizatsiia 14 no.7:
20 '64

LAPIN, V.; SHTUL'BERG, Ya.

Unnecessary intermediate operations in trade. Fin.SSSR 17 no.5:
80-81 My '56. (MLRA 9:8)

(Leningrad--Commerce)

SHTUL'MAN, D.R.

Problem of the pathogenesis of malignant exophthalmos. Sov.med.
22 no.6:38-42 Je '58 (MIRA 11:9)

1. Iz kliniki nervnykh bolezney I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M. Sechenova (dir. - prof. Ye.K.
Sepp [deceased]).

(ENCEPHALITIS, compl.

exophthalmos, malignant, pathogen. (Rus))

(EXOPHTHALMOS, etiol. & pathogen

malignant caused by encephalitis, pathogen (Rus))

SHTUL'MAN, D.R. (Moskva)

On so-called malignangt exophthalmos. Klin.med. 37 no.9:76-85 S '59.
(MIRA 12:12)

1. Iz kafedry nervnykh bolezney (zav. - deystvitel'nyy chlen AMN SSSR
prof. N.I. Grashchenkov) i Moskovskogo otdena Leningradskogo meditsinskogo
instituta I.M. Sechenova).
(EXOPHTHALMOS, etiology)

IL'INA, N.A.; SHTUL'MAN, D.R.

Thyrototoxic paroxysmal myoplegia. Probl. endok. i gorm. 6 no. 5:44-49
'60. (MIRA 14:1)

(HYPERTHYROIDISM) (MUSCLES)

SHTUL'MAN, D.R.

Malignant exophthalmos and surgical treatment of thyrotoxicosis.
Khirurgiia 36 no. 5:49-56 My '60. (MIRA 14:1)
(HYPERTHYROIDISM) (EXOPTHALMOS)

SHTUL'MAN, D.R.

Malignant exophthalmos; a survey of the literature. Vest. oft. 73
no. 4:43-51 J1-Ag '60. (MIRA 14:1)
(EXOPHTHALMOS)

SHTUL'MAN, D. R., CAND MED SCI, "MALIGNANT EXOPHTHALMOS
AS A DIENCEPHALIC SYNDROME." MOSCOW, 1961. (SECOND MOSCOW
STATE MED INST IMENI I. I. PIROGOV). (KL-DV, 11-61, 231).

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-300-

SHTUL'MAN, D.R.

Endocrine aspects of malignant exophthalmos. Probl. endok. i gorm.
7 no.1:115-119 '61. (MIRA 14:3)
(EXOPHTHALMOS) (ENDOCRINE GLANDS)

SHTUL'MAN, D.R.

Diencephalic genesis of localized pretibial myxedema. Vest.derm.
i ven. [35] no.2:8-14 F '61. (MIRA 14:3)

1. Iz kliniki nervnykh bolezney (i.o. zav. S.A. Mel'nikov)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni
I.M. Sechenova.
(MYXEDEMA) (DIENCEPHALON)

SHTUL'MAN, D.R.

Unilateral exophthalmos. Vest. oft. no. 3:10-16 '61.

(MIRA 14:9)

1. Klinika nervny bolezney (i. o. zav. S.A. Mel'nikov), I
Moskovskogo ordena Lenina meditsinskogo instituta imeni
I.M. Sechenova.

(EXOPHTHALMOS)

MEL'NIKOV, S. A.; PAVLOTSKAYA, Ye. V.; SHTUL'MAN, D. R. (Moskva)

Thrombosis and thrombophlebitis of the cerebral veins. Klin.
med. no.9:22-27 '61. (MIRA 15:6)

1. Iz kliniki nervnykh bolezney (zav. - prof. V. V. Mikheyev)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M.
Sechenova.

(CEREBROVASCULAR DISEASE)

SHTUL'MAN, D. R.; MOSKVINA, O. A. (Moskva)

Chronic toxoplasmotic encephalitis with manifestations of
paroxysmal myoclonus and diencephali crises. Klin. med. no.9:
126-129 '61. (MIRA 15:6)

1. Iz kliniki nervnykh bolezney (dir. - prof. V. V. Mikheyev)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M.
Sechenova.

(ENCEPHALITIS) (TOXOPLASMOSIS)

SHTUL'MAN, D.R.

Ophthalmological characteristics of malignant exophthalmos. Vest.
oft. no.1:45-52 '62. (MIRA 15:11)

1. Klinika nervnykh bolezney (zav. - prof. V.V. Mikeyev) i
klinika glaznykh bolezney (zav. - prof. V.N. Arkhangel'skiy)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni
I.M. Sechenova.

(EXOPHTHALMOS)

SHTUL'MAN, D. R.; DANILINA, Z. A.

Clinical aspects and pathogenesis of angioneurotic edema of the orbit. *Pediatrics* no.6:61-65 '62. (MIRA 15:6)

1. Iz kliniki detskikh bolezney (zav. - prof. Yu. F. Dombrovskaya)
i kliniki pervnykh bolezney (zav. - prof. V. V. Mikheyev) I
Moskovskogo meditsinskogo instituta.

(ANGIONEUROTIC EDEMA) (ORBIT(EYE)-DISEASES)
(POLIOMYELITIS VACCINE)

SHTUL'MAN, D.R.

Malignant exophthalmos in Parkinsonism and syringomyelia.
Zhur. nevr. i psikh. 62 no.3:367-373 '62. (MIRA 15:3)

1. Klinika nervnykh bolezney (ispolnyayushchiy obyazannosti
zaveduyushchego S.A. Mel'nikov) I Moskovskogo meditsinskogo
instituta imeni I.M. Sechenova.

(EXOPHTHALMOS) (PARALYSIS AGITANS) (SYRINGOMYELIA)

PERELMAN, L.B.; SHIMON, Y. K.; SHTULMAN, D.R.

Combination of myasthenia with thyrotoxicosis and malignant exophthalmos. Zhur. nevr. i psikh. 62 no.5:694-698 '62.

(MIRA 15:6)

I. Gruppya deystvitel'nogo chlena AMN SSSR N.I. Grashchenkova pri Akademii meditsinskikh nauk SSSR : klinika nervnykh bolezney (dir. : prof. V.V. Mikheyev) i Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(MYASTHENIA GRAVIS) (HYPERTHYROIDISM) (EXOPHTHALMOS)

MEL'NIKOV, S.A.; SHTUL'MAN, D.R.

"Acute disorders in the cerebral blood circulation"; "Trudy"
of the Institute of Neurology of the Academy of Medical
Sciences of the U.S.S.R., No.1. Reviewed by S.A. Mel'nikov,
D.R. Shtul'man. Zhur. nevr. i psikh. 62 no.12:1886-1888 '62
(MIRA 16:11)

MIKHEYEV, V.V.; SHTUL'MAN, D.R.

Clinical aspects of spinal lesions in cervical osteochondrosis.
Trudy 1-go MMI 24:87-120 '63 (MIRA 17:3)

LATASH, L.P.; SHTUL'MAN, D.R.

Electroencephalographic analysis of exophthalmos. Trudy 1-go
MMI 24:186-202 '63 (MIRA 17:3)

MIKHEYEV, V.V.; SHTUL'MAN, D.R.

Lesion of the spinal cord in cervical osteochondrosis (chronic cervical myelopathy). Sovet. med. 26 no.5:87-95 My'63
(MIRA 17:1)

1. Iz kliniki nervnykh bolezney (dir. - prof. V.V. Mikheyev)
I Moskovskogo meditsinskogo instituta imeni I.M. Sechenova.

SHTUL'MAN, D.R.

Malignant exophthalmos as a neuro-endocrine form of diencephalic syndrome. Sov. med. 27 no.10:76-82 1983. (MIRA 17:6)

1. Iz kliniki nervnykh bolezney (zav.-prof. V.V. Mikheyev) i Moskovskogo meditsinskogo instituta imeni Sechenova.

SHTUL'MAN, D.R.

Case of unilateral endocrinous exophthalmos. Khirurgiya 39
no.9:132-134 S'63 (MIRA 17:3)

1. Iz kliniki nervnykh bolezney (dir. ~ prof. V.V.Mikhayev)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni
Sechenova.

SHTUL'MAN, D.R. (Moskva)

Role of the diencephalo-pituitary system in the pathogenesis of clubbed fingers. Klin. med. 41 no.9:91-98 S'63 (MIRA 17:3)

1. Iz kliniki nervnykh bolezney (dir. - prof. V.V. Mikheyev)
I Moskovskogo ordena Lenina meditsinskogo instituta.

PEREL'MAN, L.B.; SHTUL'MAN, D.R.; KOLOMENSKAYA, Ye.A.; SMIRNOV Yu.K.;
FISHMAN, M.N. (Moskva)

Ocular form of myasthenia gravis. Klin. med. 41 no.6:127-
135 Je '63. (MIRA 17:1)

1. Iz laboratorii klinicheskoy neyrofiziologii (rukovoditel' -
prof. N.I. Grashchenkov) AMN SSSR i kliniki nervnykh bolezney
(dir. V.V. Mikheyev) i Moskovskogo meditsinskogo instituta
imeni I.M. Sechenova.

LATASH, L.I. - PICHIRMAN, D.R.

Changes in the dominating rhythm of EEG in malignant exophthalmos and their correlation with the function of the thyroid gland. Probl. endok. i gorm. 10 no.4:28-33 JI-Ag '64.

(MIRA 18:6)

1. Laboratoriya neyro-gumoral'noy regulyatsii AN SSSR (zav.-daystvitel'nyy chlen AMN SSSR N.I. Grashchenkov) i klinika nervnykh bolezney (zav.-prof. V.V. Mikheyev) i Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

MIKHEYEV, V.V.; SHTUL'MAN, D.R.; IL'YINA, N.A.; GALINA, I.V.; KOLOSOVA, O.A.

Amyotrophic lateral sclerosis syndrome in cervical osteochondrosis.
Zhur. nevr, i. psikh. 63 no.6:833-840 '63. (MIRA 17:6)

1. Klinika nervnykh bolezney (direktor - prof. V.V. Mikheyev)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.
Sechenova.

SHTUL'MAN, D.R., assistant; KOLOMOYTSEVA, I.P., assistant

Clinical aspects of discogenic cervical myelopathy. Study 1-go MMI
38:67-116 '65. (MIRA 18:10)

MIKHEYEV, V.V., prof.; SHTUL'MAN, D.R., assistant; GRUSHINA, A.G., assistant

Clinical anatomical analysis of a case of discogenic cervical
myelopathy with a pattern of amyotrophic lateral sclerosis.
Trudy 1-go MMI 38:117-127 '65. (MIRA 18:10)

JIRGER, I.M., prof.; SHTUL'MAN, D.R., assistant

Protrusion of thoracic intervertebral disks. Trudy 1-go MMI 38:128-
142 '65. (MIRA 18:10)

SHTUL'MAN, D.R., assistant; SHIFRIN, S.S., kand. med. nauk; KOLOMOYTSEVA,
I.P., assistant; RUMYANTSEV, Yu.V.

Clinical and roentgenological correlations in discogenic cervical
myelopathy. Trudy 1-go MMI 38:235-246 '65. (MIRA 18:10)

IRGER, I.M., prof.; BAUM, B.M.; KOLOMOYTSEVA, I.P.; RUMYANTSEV, Yu.V.;
SHTUL'MAN, D.R.; FAL'CHUK, A.Ya.

Results of surgical treatment of discogenic cervical myelopathy.
Trudy 1-go MMI 38:318-341 '65. (MIRA 18:10)

SHTULMAN, D.S., Assistant

Syndrome of amyotrophic lateral sclerosis of spondylogenic nature
in a 14-year-old girl. Trudy 1-go MMI 38:386-390 '65. (MIRA 18:10)

AUTHOR: Belozеров, A.; Shtul'man, I. 107-58-3-18/41
TITLE: Shipments of Radio Parts for Rural Radio Amateurs (Posylki
dlya sel'skikh radiolyubiteley)
PERIODICAL: Radio, 1958, Nr 3, p 25 (USSR)
ABSTRACT: The DOSAAF radio amateur clubs may help to improve the supply
of radio parts to local trade organizations by informing them
of the quantities and types of material needed to meet con-
temporary demand. The supply of radio parts, especially to
rural areas, is still inadequate, although a large amount is
shipped to villages. Some industrial installations, for ex-
ample the plant "VEF", Director G.V. Khubayev, did not ship
any power or output transformers or filter choke coil of the
radio "Lyuks". The "Glavkoopkul'ttorg" sends shipments of
radio parts to rural areas (complete sets for assembly of
ultra short wave radio stations, battery and ac receivers,
electrolytic capacitors, etc). For 1958, the set for

Card 1/2

OVCHARENKO, F.D., akademiil. doktor khim.nauk, orv.red.; GORSHKOV, A.A., red.;
USENKO, I.S., doktor geol.-min. nauk, red.; DAVYDOV,
G.M., kand. ekon. nauk, red.; KHAN, B.Kh., kand. tekhn.nauk, red.;
KORABLIN, V.P., inzh., red.; SHTUL'MAN, I.F., red.; DAKHNO, Yu.B., tekhn.
red.
[Stone casting] Problemy kamennogo lit'ia. Kiev, Izd-vo
AN USSR, 1963. 226 p. (MIRA 17:2)

1. Akademiya nauk URSS, Kiev. Rada po vyvchenniu produktyv-
nykh syl URSS. 2. Akademiya nauk Ukr.SSR (for Ovcharenko).
3. Chlen-korrespondent AN Ukr.SSR (for Gorshkov). 4. Sovet po
izucheniyu proizvoditel'nykh sil Ukr.SSR (for Davydov).

PISARENKO, G.S., doktor tekhn. nauk, prof., red.; SHTUL'MAN, I.F.,
red.

[High temperature strength in the manufacture of machinery;
transactions] Voprosy vysokotemperaturnoi prochnosti v ma-
shinostroenii; trudy. Pod red. G.S.Pisarenko. Kiev, Izd-vo
AN USSR, 1963. 335 p. (MIRA 17:5)

1. Nauchno-tekhnicheskoye soveshchaniye po voprosam statiches-
koy i dinamicheskoy prochnosti materialov i konstruktiv-
nykh elementov pri vysokikh temperaturakh. 2d. Kiev, 1962.
2. Chlen-korrespondent AN Ukr.SSR (for Pisarenko).

GRAGEROV, Isaak Petrovich, doktor khim. nauk, otv. red.;
REKASHEVA, Anna Fedorovna; LUNENOK-BURMAKINA, Valentina
Arsent'yevna; SHTUL'MAN, I.F., red.

Aleksandr Il'ich Brodskii. Kiev, Naukova dumka, 1965.
39 p. (MIRA 18:10)

BULAKH, Yevgeniy Georgiyevich; YUN'KOV, A. A., prof., doktor geol.-
min. nauk, otv. red.; SHUTUL'MAN, I. F., red.

[Integral relations for the interpretation of gravity
anomalies] Integral'nye sootnosheniia dlia interpreta-
tsii gravitatsionnykh anomalii. Kiev, Naukova dumka,
1965. 112 p. (MIRA 18:2)

SLENZAK, Oleg Igorevich; CHEBANENKO, I.I., otv. red.; SHTUL'MAN,
I.F., red.

[Structure of the Precambrian of the Ukraine as exemplified
by the southwestern part of the Ukrainian crystalline shield]
Pro strukturu ukrains'koho dokembriiu; na prykladi pivdenno-
zakhidnoi chastyny Ukrains'koho krystalichnoho shchyta.
Kyiv, Naukova dumka, 1965. 137 p. (MIRA 18:9)

BALABUSHEVICH, Illarion Arkad'yevich; SUBBOTIN, S.I., akademik,
otv. red.; SHTUL'MAN, I.F., red.

[Pripet graben; practice in the paleotectonic analysis of
its present-day structure] Pripiatskii graben; opyt paleo-
tektonicheskogo analiza sovremennogo stroeniia. Kiev,
Naukova dumka, 1965. 170 p. (MIRA 18:5)

1. Akademiya nauk Ukr.SSR (for Subbotin).

KOLYAYEV, Grigoriy Ivanovich; SKARZHINSKIY, V.I., otv. red.;
SHTUL'MAN, I.F., red.

[Pre-Cambrian tectonics of the Ukrainian iron-ore
provin. e] Tektonika dokembria Ukrainskoi zhelezno-
rudnoi provintsi. Kiev, Naukova dumka, 1965. 188 p.
(MIRA 18:7)

ARONOV, Abram Khaimovich; VVEDENSKIY, Sergey Fedorovich; SHTUL'MAN, Izrail'
Ikhil'yevich; ANDRUSEVICH, D.A., dotsent, red.; MARTSEVICH, Yu.P.,
red. izd-va; KOZLENKOVA, Ye.I.; tekhn. red.

[Study of general consumers' goods] Tovarovedenie kul'ttovarov. Pod
obshchei red. D.A. Andrusevicha. Moskva, Izd-vo TSentrosciuzs.
1960. 556 p. (MIRA 14:8)
(Commercial products)

KOZHICH-ZELENKO, Mariya Platonovna [Kozhych-Zelenko, M.P.]; LAPCHIK, T.Yu. [Lapchik, T.IU.], kand.geol.-miner.nauk, otv.red.; SHUL'MAN, I.P., red.; CHEKHOVICH, N.Ya. [Chekhovich, N.IA.], red.; KADASHEVICH, O.O. [Kadashevich, O.O.], tekhn.red.

[Lithology of Carboniferous sediments in the western part of the Greater Donets Basin] Litologiya kam'ianovuhil'nykh vidkladiv zakhidnoho sektora Velikoho Donbasu. Akad. Vydavnytstvo Akad.- nauk URSR, 118 p. (Akademiia nauk URSR, Kiev. Instytut geologichnykh nauk. Trudy. Serii stratygrafii i paleontologii, no.24.).

(MIRA 15:5)

(Donets Basin--Rocks, Sedimentary)

SHTUL'MAN, M.A.; GRUZDEV, Yu.S., inzhener.

Make better use of radio communication. Avtom., telem. i svyaz'
no.4:24 ap '57. (MLRA 10:5)

1. Pomoshchnik uchastkovogo revizora po bezopasnosti dvizheniya
poyezdov na Krasnoyarskom otdelenii. (for Shtul'man) 2. 2-ya
Krasnoyarskaya distantsiya signalizatsii i svyazi. (for Gruzdev).
(Railroads--Communication systems)

SHTUL'MAN, M.A., inzh.

Redesigning signaling devices. Avtom., telem.i svyaz'
4 no.6:16-19 Je '60. (MIRA 13:7)

1. Glavnyy inzhener sluzhby signalizatsii i svyazi
Krasnoyarskoy dorogi.
(Railroads--Signaling)
(Railroads--Electronic equipment)

SHTUL'MAN, M.A.

Reorganization of central block signaling systems for d.c. electric
railroads. Zhel.dor.transp. 42 no.11:53-57 N '60. (MIRA 13:11)

1. Glavnyy inzhener sluzhby signalizatsii i svyazi Krasnoyarskoy
dorogi.

(Railroads--Electrification)

(Railroads--Signaling--Block system)

SHTUL'MAN, M.A.

Safety engineering techniques in and a.c. electrified railroad district.
Avtom., telem. i sviaz' 7 no.2:1-4 F '63. (MIRA 16:3)

1. Glavnyy inzh. sluzhby signalizatsii i svyazi Vostochno-Sibirskoy
dorogi.

(Electric railroads—Safety measures)

L 24457-65 EWT(1)/EEC-4/EWA(h) Feb

ACCESSION NR: AP5005667

S/0223/64/000/010/0004/0008

AUTHOR: Panchenko, F. Ye. (Head of the signalization and communications service of the East Siberian Railroad); Rodygin, N. A. (Engineer of the railroad laboratory); Fomin, V. N. (Engineer of the railroad laboratory); Shtul'man, M. A. (Chief engineer)

TITLE: Use of waveguide conduits to assist radio communication on AC-electrified railroads

SOURCE: Avtomatika, telemekhanika i svyaz', no. 10, 1964, 4-8

TOPIC TAGS: waveguide, radio communication system, electric interference

Abstract: The introduction of AC electrification has presented very serious problems for existing automation, telemechanical and communication facilities. This is illustrated by the case of radio station ZhR-3, serving the East-Siberian Railway; on electrified portions of this line, the station encounters very high electrical interference. Theoretically, the difficulty could be overcome by shifting to VHF, but in the specific range (150-160 Mc) Soviet radio technology has not been able to assure reliable and simple operation of stations. ZhR-3 has therefore taken up the use of waveguides on difficult segments of the route.

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L 24457-65

ACCESSION NR: AP5005667

This decision follows extensive research made during 1960-1962 on the East Siberian RR, by various research groups and the line's laboratory; the results of this research were reported in an article by A. A. TANTSYURA, in the No 11, 1963 issue of this periodical.

Waveguide conduits suspended from overhead supports were proposed and introduced into service as early as 1957, on the Irkutsk-Slyudyanka RR (N. A. RODYGIN; this periodical, No 1, 1959), where they have demonstrated their superiority over multiwire conductors ever since; in 1963, the entire Irkutsk-Zima stretch of 240 km had to be similarly equipped.

The technical advantages and problems associated with waveguide conduits are covered in some detail by the present article. Orig. art. has 5 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

JPRS

Card 2/2

SHTULUTKO, L. I., prof.

Certain considerations on giant-cell tumors. Khirurgia, Sofia 14
no.1:3-8 '61.

(GIANT CELL TUMORS)

SHTULYAKOVSKIY, YA. E.

USSR/Chemistry - Hydrocarbons

Sep 53

"Concerning 1, 1-Dimethylcyclopropane," Ya. M. Slobodin, V.I. Grigor'yeva, and Ya. E. Shtulyakovskiy, Leningrad Sci-Res Inst for the Conversion of Petroleum and the Production of Synthetic Liquid Fuel

Zhur Obshch Khim, Vol 23, No 9, pp 1480-1485

The action of Br on 1, 1-dimethylcyclopropane (I) produces a mixture of bromides containing 42% of trimethyl-ethylene bromide and 60% of asymmetrical methyl-ethyl-ethylene bromide. The splitting off of Br from the mixture of bromides obtained leads to the formation of trimethylene (II) and asymmetrical methyl-ethyl-ethylene in the same proportion. The hydrogenation of I at 150° over Ni deposited on diatomaceous earth, leads to the formation of isopentane. When there is a deficiency of H during the hydrogenation of I, the resulting hydrocarbon mixt. in addition to unchanged I, contains II.

268T28

SHTULYAR, Pavel

Developments in welding techniques in Yugoslavia during the
last ten years. Avtom. svar. 15 no.8:86-90 Ag '62. (MIRA 15:7)

1. Lyublyanskiy svarochnyy savod, Yugoslaviya.
(Yugoslavia—Welding)

SETUMM, El'za Ivanovna, Gecroy Sotsialisticheskogo Truda, doyararka;
GOLOD, O.V., red.

[For high milk yields] Za vysokie nadoi moloka. Frunze,
MSKh Kirg.SSR, 1961. 26 p. (MIRA 17:10)

1. Kolkhoz "Min-Bulak" Talasskago rayona Kirg. SSR (for
Shtumm).

DMITRIENKO, P. A.; SHUMOVA, V. S.

Phosphorus

Characteristic of phosphorus distribution in horizons of South Ukrainian
solonetz soils. Pochvovedenie. No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

Shtumpf, H G.

KHARITONOV, S.; SHTUMPF, A. G.

High-grade coal for consumers. Mast. ugl. 3 no. 10:16 0 '54.
(MLRA 7:12)

1. Zamestitel' upravlyayushchego treston Molotovugol'
kombinata Kuzbassugol' (for Kharitonov) 2. Nachal'nik OTK
shakhty "Kapital'naya-1" (for Shtumpf)
(Coal)

KHARITONOV, S.I.; SHTUMPF, A.G.; GREK, A.V.; TSYMBALYUK, A.G.; KAZNACHEYEV,
I.M.; BOGACHEVA, A.G.

Response to V.D. Avramenko's article "For a fundamental change in
the system of standardizing the quality of coal" ("Ugol'" no.2.
1955). Ugol' 30 no.9:43-45 S'55. (MLRA 8:12)

1. Trest Molotovugol' kombinata-Kuzbassugol' (for Kharitonov)
2. Shakhta "Kapital'naya-1" tresta Molotovugol' (for Shtumpf)
3. Nachal'nik Otdela standartizatsii Vsesoyuznogo nauchno-
issledovatel'skogo instituta Ugleobogashcheniya (for Grek)
4. Toplivnaya inspektsiya M.P.S. po Kuzbassu "Sibtranstop" (for
TSymbalyuk and Kaznacheyev)
5. Nachal'nik Otdela tekhnicheskogo
kontrolya shakhty no.4 "Yurkovskaya" (for Bogacheva)
(Coal--Standards) (Avramenko, F.D.)

11.11.6.
SHTUMPF, A.

~~_____~~
The sector is operating rhythmically. Mast. ugl. 6 no.1:8-9
Ja '57. (MLRA 10:4)
(Kuznetsk Basin--Coal mines and mining)

AUTHOR: Shtumpf, A. G., Engineer SOV/28-59-1-12/29

TITLE: The Preliminary Determination of Ash Content in the Coal by Fractional Analysis (Predvaritel'naya otsenka zol'nosti uglya po fraktsionnym analizam)

PERIODICAL: Standartizatsiya, 1959, Nr 1, pp 39 - 40 (USSR)

ABSTRACT: A method for determination of the ash content in coal was introduced by the Osinniki Regional Inspection Office in cooperation with the OTK of the mines. Coal samples of 5 - 7 kg are laminated in a solution of zinc chloride with a specific gravity of 1.5 and 1.8. This testing method differs from the chemical testing method with 0.3%. It is simple and time saving, requiring 20 - 25 minutes. This method can be applied in several mines of the Kuzbass

ASSOCIATION: Shakhta Kapital'naya-I (Kapital'naya-I Mine)

Card 1/1

SHUMPF, A., inzh.

Masters of cyclic operations. Mast. ugl. 9 no. 5:4 My '60.
(MIRA 13:7)

(Kuznetsk Basin--Coal mines and mining)

NIKITYUK, D.; SHTUMPF, A., inzh.

In section No.9. Sovshakht. 10 no.11:13-14 N '61.

(MIRA 14:11)

1. Nachal'nik uchastka No.9 shakhty "Kapital'naya-1" tresta
Osinnikiugol' Kuznetskogo basseyna.
(Kuznetsk Basin--Coal mines and mining)

2000-12-10

of investigating the strength of anchoring bolts in anchoring rocks and coal seams of the Olenki and Kondor Regions of the Kuznetek Basin. Vop. gor. davl. no.17:19-30 '63.

(MIRA 18:9)

1. Shakhra "Kapital'naya-1" Kuznetskogo basseyna.

L 27223-66 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v)

ACC NR: AM6002138

Monograph

Khaykin, Abram Borisovich; Shtumpf, Edgar Pavlovich

14 Automatic control of the operation of ships with screws of variable pitch (Avtomaticheskoye regulirovaniye rezhimov raboty sudov s VRSh) Leningrad, Izd-vo "Sudostroyeniya," 1965. 197 p. illus., biblio. 2000 copies printed.

TOPIC TAGS: marine engineering, shipbuilding engineering, analog computer, moment transducer, ship component, automatic control, automatic control equipment, propeller, ship propeller, variable pitch propeller, variable pitch propeller control

PURPOSE AND COVERAGE: This book is intended for engineers and technicians engaged in the designing and building of ships equipped with variable-pitch propellers; it may also be used by students in higher educational institutions studying the automation of shipboard equipment. In the book, principles are outlined for constructing the systems and elements of automatic devices for ships having variable-pitch propellers, as well as methods for adjusting and designing these devices. Methods are presented for designing these devices using analog computers in conjunction with actual equipment. Systems of program control and automation are worked out based on magnetoelastic moment transducers and other

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UDC: 629.12.037-52

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57
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ACC NR: AM6002138

measuring devices. Chapter VI and para. 15 of chapter IV were written by V. A. Chirkov.

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OTH REF: 001

Card 3/3

KHAYKIN, A.B., kand.tekhn.nauk; SHTUMP, E.P., inzh.

Automatic control systems for propulsion equipment with regular
pitch propellers. Sudostroenie 26 no.10:18-24 0'60. (MIRA 13:10)
(Ship propulsion) (Automatic control)

KHAYKIN, A.B., kand.tekhn.nauk; SHTUMPF, E.P., inzh.

Noncontact system of temperature signalization. Sudostroenie
28 no.3:28-31 Mr '62. (MIRA 15:4)
(Temperature regulators) (Electricity on ships)

KHAYKIN, A.B., kand.tekhn.nauk; SHTUMPF, E.P., kand.tekhn.nauk

Torque measurement on propeller shafts during ship trials. Sudostroenie
29 no.1:69-72 Ja '63. (MIRA 16:3)

(Shafting)

(Torque)

SHTUMPF, E.P., kand.tekhn.nauk

Regulation of ship propulsion systems with controllable pitch propellers
by means of a temperature pickup. Sud. sil. ust. no.2:115-127 '63.
(MIRA 17:1)

1. Leningradskiye vyssheye inzhenernoye morskoye uchilishche.

SHTUMPF, E.P., kand.tekhn.nauk

Automatic programmed control of controllable pitch propeller systems.
Sudostroenie 29 no.11:32-34 N '63. (MIRA 16:12)

SHUMIP, L.F., hand, 1944-1945

Method of determining the load variations of a diesel engine by
the cylinder loads. Saksyrene 31 no. 5:44-45 Ny '65.

(MIRA 18:8)

KHAYKIN, Abram Borisovich; RUSSIAN; Edg. RUSSIAN; LEADYUNOV, V.I.,
inzh., reizen. YEVOSEYEV, G.V., inzh., RUSSIAN, red.;
KVOCHKINA, G.P., red.

[Automatic control of the operation of ships with controllable-
pitch propellers] Avtomat. usk. a regulirovaniye rezhimov ra-
boby sudov s VRSb. Leningrad, Sudostroenie, 1965. 197 p.
(MIRA 18:12)

SHTUMPF, G.G., inzh.; BUBNOV, V.G., inzh.

Using metal rods together with regular supports in development workings. Shakht. stroi. 7 no.8:28-30 Ag '63.

(MIRA 16:11)

1. Shakhta "Kapital'naya" No. 1 tresta Osinnikiugol' Kuznetskogo basseyna.

5(3)

SOV/79-29-4-60/77

AUTHORS:

Kochetkov, N. K., Gottikh, B. P., Shtumpf, Rol'f

TITLE:

Reaction of β -Chlorovinyl Ketones With β -Dicarbonyl Compounds (Vzaimodeystviye β -khlorvinilketonov s β -dikarbonil'nyimi soyedineniyami). IX. Ketovinylation of the Esters of Cyclic β -Keto Acids (IX. Ketovinilirovaniye efirov tsiklicheskikh β -ketokislots)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1320-1323 (USSR)

ABSTRACT:

In connection with previous investigations carried out by the authors (Refs 1-5) the ketovinylation of the esters of cyclic keto acids is discussed in the article under review, and new prospects for their synthesis are given. Subject of the examination were the ethyl esters of cyclopentanone- and cyclohexanone carboxylic acids containing active hydrogen and therefore capable of being easily ketovinylated (Ref 6). The ketovinylation of the said β -keto esters was carried out by reaction of the sodium derivative of the β -keto ester suspended in benzene with β -chlorovinyl ketone, according to references 2 and 3. The reaction, which met with no difficulties whatever, neither in the case of alkyl β -chlorovinyl ketones, nor in the case of their aromatic analogues, resulted in normal ketovinylation products

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SOV/79-29-4-60/77

Reaction of β -Chlorovinyl Ketones With β -Dicarbonyl Compounds. IX. Ketovinylation of the Esters of Cyclic β -Keto Acids

with yields ranging from 60 to 70% (Scheme 1). After the usual treatment the 1-carbethoxy-1-(3'-ketoalken-1'-yl-1')-cycloalkanones-2 were removed by distillation (see the experimental part). In principle, this reaction does not differ from the ketovinylation of α -alkylacetacetic esters (Ref 3). In order to realize the ketovinylation of other β -dicarbonyl compounds of the alicyclic series, one of the representatives of cyclic β -diketones, viz. 1,1,4-trimethylcyclohexanedione-3,5 (methyl-dimedone) was ketovinylated. After many, partly unsuccessful, experiments the conditions were found under which it is possible to prepare a ketovinylation product with an output of between 30 and 35% (Scheme 2). When hydrogenated this product absorbs 1 mol of hydrogen, which suggests only one double bond, and does not yield a 1,3,5-triacetyl benzene with diluted acids, which suggests a C derivative. These results confirm the theory of the structure of the product obtained and prove the fact that it is possible to apply ketovinylation to cyclic as well as alicyclic β -diketones. There are 6 Soviet references.

Card 2/3

SOV/79-29-4-60/77

Reaction of β -Chlorovinyl Ketones With β -Dicarbonyl Compounds. IX. Ketovinylation of the Esters of Cyclic β -Keto Acids

ASSOCIATION: Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR (Institute of Pharmacology and Chemotherapy of the Academy of Medical Sciences, USSR)

SUBMITTED: March 6, 1958

Card 3/3

REYNOV, Mikhail Naumovich; BREGMAN, Vladimir Il'ich; SHTIMPE, V.M., kand.
tekhn. nauk, retsenzent; SOKOLOV, S.A., kand. tekhn. nauk, retsen-
zent; DORMIDONTOV, F.K., otv. red.; FRUMKIN, P.S., tekhn. red.

[Engineering calculations on an electronic computer] Inzhenernye
raschety na elektronnom vychislitele. Leningrad, Gos.soiuznoe izd-vo
sudostroit. promyshl., 1961. 130 p. (MIRA 14:6)
(Electronic calculating machines)

L 25558-66 (N) EWT(d)/EWT(m)/EWP(h)/EWP(l) TT/WE

ACC NR: AM6004767

Monograph

UR/

Knoring, Semen Davydovich; Pavlinova, YEvgeniya Alekseyevna; Filippov, Maksim Valentinovich; Shpakov, Vladimir Stepanovich, Shtumpf, Valentin Mikhaylovich

Floating flexible vessels for the transportation of petroleum products; problems of durability and hydrodynamics, and theory and methods of calculation (Plavuchiye elastichnyye yemkosti dlya transportirovki nefteproduktov; voprosy prochnosti i gidrodinamiki, teoriya i metody rascheta) Leningrad, Izd-vo "Sudostroyeniye", 1965. 223 p. illus., biblio. 1,250 copies printed

TOPIC TAGS: ocean transportation, inland vessel data, merchant vessel data, cargo ship, solid statics, hydrodynamics

PURPOSE AND COVERAGE: The book presents the results of investigations of the strength and speed of new means of transportation--floating elastic vessels intended for the transportation of petroleum products and other liquid loads on sea and inland waterways. Experience and design of manufacture of such vessels, accumulated in Soviet and foreign shipbuilding is described. Practical methods for calculating the strength and speed of floating elastic vessels under all principal operating conditions are given. Recommendations on the design and construction of such vessels are presented. The bulk of the investigations reported were made by the authors and are published for the first time. The book is intended for engineering-technical workers in design offices and in the shipbuilding industry, and can also be used by students of shipbuilding institutes and faculties. Authors thank N. P. Sytov, A. L. Koshevoy, B. I.

Card 1/2

UDC: 629.12.011.17

L 25558-66

ACC NR: AM6004767

Gold, R. V. Pyatyshev, and V. YA. Aleksandrov and also YU. F. Ryabkov for useful remarks, and N. V. Alekseyeva for great help in the calculations and the reduction of the experimental data. The sections of the book devoted to shell strength were written by S. D. Knoring, YE. A. Pavlinova, and M. V. Fillipeo, and the hydromechanic sections were written by V. M. Ehtumpf and V. S. Shpakov.

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